



Student Experimental Design Report

Name: _____ Group Members: _____ Date: _____

Step 1: Start with Observations

These is what I understand and have observed about the subject/object/phenomenon I am studying ...

Step 2: Ask a Testable Question

These are the possible variables that could be measured or changed ...

I have identified and highlighted the **independent** (changed) variable and **dependent** (measured) variable in the above list. All others are **controlled** variables.

Independent Variable (IV): _____

Dependent Variable (DV): _____

My Testable Question (*How will the independent variable affect the dependent variable?*):

Stop! Discuss with your group members and have your teacher approve your testable question.

Teacher Approved! ✓

Step 3: Construct a Hypothesis

*This is a **statement** (not a question) of how you think the independent variable will **affect** the dependent variable and the **reason** why you think this might be true.*

If the independent variable is (describe the changes) _____ describe the changes _____,
then the will _____ predict the effect _____, because _____
state your scientific justification _____.